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File: USPT

May 2, 2000

US-PAT-NO: 6057496

DOCUMENT-IDENTIFIER: US 6057496 A

TITLE: True breeding transgenics from plants heterozygous for transgene insertions

DATE-ISSUED: May 2, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conner; Anthony John	Christchurch	N/A	N/A	NZX

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
New Zealand Institute for Crop and Food Research Limited	Cantebury	N/A	N/A	NZX		03

APPL-NO: 9/ 100879

DATE FILED: June 22, 1998

## PARENT-CASE:

CROSS REFERENCES TO RELATED APPLICATIONS This application claims priority to PCT/NZ96/00148, filed on Dec. 20, 1996, and New Zealand Patent Application No. 280742, filed on Dec. 21, 1995, both applications which are hereby incorporated by reference in their entirety.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
NZ	280742	December 21, 1995

INT-CL: [7] C12N 15/82, A01H 1/00, A01H 5/00, A01H 5/10

US-CL-ISSUED: 800/300; 435/69.1, 435/468, 435/418, 435/419, 800/260, 800/278, 800/298, 800/290, 800/295, 800/306, 800/320, 800/323

US-CL-CURRENT: 800/300; 435/418, 435/419, 435/468, 435/69.1, 800/260, 800/278, 800/290, 800/295, 800/298, 800/306, 800/320, 800/323

FIELD-OF-SEARCH: 435/69.1, 435/468, 435/418, 435/419, 536/23.6, 800/260, 800/278, 800/298, 800/306, 800/323, 800/320, 800/300, 800/290, 800/295

## PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5254801</u>	October 1993	Dotson et al.	800/278
<input type="checkbox"/>	<u>5278057</u>	January 1994	Jorgensen	435/468
<input type="checkbox"/>	<u>5426041</u>	June 1995	Fabijanski et al.	435/468
<input type="checkbox"/>	<u>5633441</u>	May 1997	De Greef et al.	800/278
<input type="checkbox"/>	<u>5652354</u>	July 1997	Mariana et al.	536/24.1

## OTHER PUBLICATIONS

Conner and Christey, Biocontrol Science and Technology, 4:463-473 (1994).  
Bayley et al., "Engineering 2,4-D Resistance Into Cotton," Theor Appl Genet, 83:645-649 (1992).  
Conner et al., "Brassica Napus Mutants With Increased Chlorsulfuron Resistance," Proc. 47th New Zealand Plant Protection Conf., 173-177 (1994).  
Guerineau et al., "Sulfonamide Resistance Gene for Plant Transformation," Plant Molecular Biology, 15:127-136 (1990).  
McKersie, B.D. and S.R. Bowley, "Somatic Embryogenesis: Forage Improvement using Synthetic Seeds and Plant Transformation," In Molecular and Cellular Technologies for Forage Improvement, Proceedings of a symposium sponsored by Divisions C-1, C-6, and C-7 of the Crop Science Society of America in Indianapolis, IN, Nov. 6, 1996, E.C. Brummer et al. (editors), CSSA Special Publication Number 26:117-134 (1998).  
Potrykus, I. Ann. Rev. Plant Physiol. Mol. Biol., vol. 42, pp. 205-225, 1991.  
Lyon et al, Plant Mol. Biol., vol. 13 pp. 533-540, 1989.  
Li et al, Plant Physiol., vol. 100, pp. 662-668, 1992.  
D'Ovidio, Plant Mol. Biol., vol. 22, pp. 1173-1176, 1993.  
McKersie et al, Plant Physiol., vol. 103, pp. 1155-1163, 1993.  
Weeks et al, Plant Physiol., vol. 102, pp. 1077-1084, 1993.  
Odell et al, Mol. Gen. Genet., vol. 223, pp. 369-378, 1990.  
White et al, Plant Mol. Biol., vol. 8, pp. 461-469, 1987.

ART-UNIT: 169

PRIMARY-EXAMINER: Fox; David T.

ASSISTANT-EXAMINER: Mehta; Ashwin

ATTY-AGENT-FIRM: Morgan, Lewis &amp; Bockius LLP

## ABSTRACT:

The invention provides a method for biasing a crop plant which is heterozygous for a transgene towards the production of seeds which carry the transgene comprising the step of contacting the crop plant containing a gene construct comprising the transgene coding for resistance to a specific phytotoxin with the specific phytotoxin one or more times during the life of the crop plant.

The method achieves this through selective inhibition of phytotoxin-sensitive plant ovules, embryos and pollen. The method has particular application to the production of open pollinated and synthetic varieties of crop plants, such as alfalfa synthetic varieties.

17 Claims, 0 Drawing figures

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L4: Entry 1 of 1

File: DWPI

May 2, 2000

DERWENT-ACC-NO: 1997-351069

DERWENT-WEEK: 200029

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TITLE: Production of transgenic seed in plants heterozygous for trans-gene - that imparts resistance to herbicide, by treating plants during growth with herbicide to eliminate non-transgenic ovule(s), pollen and embryos

INVENTOR: CONNER, A J

PRIORITY-DATA: 1995NZ-0280742 (December 21, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6057496 A	May 2, 2000	N/A	000	C12N015/82
WO 9723634 A2	July 3, 1997	E	021	C12N015/82
AU 9712143 A	July 17, 1997	N/A	000	C12N015/82
WO 9723634 A3	October 23, 1997	N/A	000	C12N015/82

INT-CL (IPC): A01H 1/00; A01H 1/04; A01H 5/00; A01H 5/10; C12N 15/82

Full	Title	CIT.1	REV.1	CLS.1	REF.1	DRAW.1

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